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# Strategies to Engage Faculty and Collaborative Research

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## Session Objectives

- Learn how three Ohio State University Colleges engage faculty to promote research efforts
- Discuss best practices at other institutions





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AND ENVIRONMENTAL SCIENCES

## FY2016 RESEARCH

### EXPENDITURES

Research expenditures –  
the funds spent on  
personnel, supplies and  
services – reflect the  
research activity of the  
college

**\$40.7M**

**865 active grants**

### SUBMISSIONS AND AWARDS

#### Proposals

**441** proposals  
submitted

**\$99.8M** in funds  
requested

#### Awards

**338** awards in FY  
2016

**\$35M** in awards

### INTELLECTUAL PROPERTY

**29** Patent Filings

**9** New Patents Issued

**13** Invention Disclosures

**24** New Inventors

**\$264,180** Total Licensing Revenue



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## Grant Development Support Unit

**Our mission** is to serve CFAES faculty researchers as they conceptualize, develop, write and submit their proposals to federal agencies and other entities to seek funding.

**Our goal** is to work across all disciplines to make the proposal development process as straightforward and streamlined as possible.

*The GDSU has been  
successful in obtaining  
more than  
\$87 million  
in new extramural  
funding since its  
inception in 2010.*



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## New Faculty Onboarding

[go.osu.edu/GDSUResearcherOnboarding](https://go.osu.edu/GDSUResearcherOnboarding)

### Orientation Packets

- ✓ Common Acronyms
- ✓ OSU Research Policies
- ✓ Facilities and Centers
- ✓ Responsible Research
- ✓ Conflicts of Interest
- ✓ Institutional Data Policies
- ✓ Buckeye Box





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## **First Tuesdays**

**[u.osu.edu/FirstTuesdays](https://u.osu.edu/FirstTuesdays)**

- Provides information on OSU's financial, physical and human resources that contribute to faculty success
- Introduces faculty to concepts in leadership and personal and professional development
- Facilitates communication and networking among faculty
- Introduces faculty to state, regional, national and international issues that can impact personal and programmatic outcomes



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## D.C. Days

- Increases faculty understanding of federal agency programs
- Encourages relationships between new faculty and national program leaders
- Educates new faculty on available funding through federal sponsors
- Provides resources that make faculty more competitive





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## **SEEDS: The OARDC Research Enhancement Competitive Grants Program**

- Increases the competitiveness of scientists in extramural programs
- Encourages partnerships with industry and other stakeholders as well as international collaborations
- Promotes the development of interdisciplinary teams
- Provides undergraduate students with research experience
- Allows graduate students to take part in the grant-writing and proposal review process





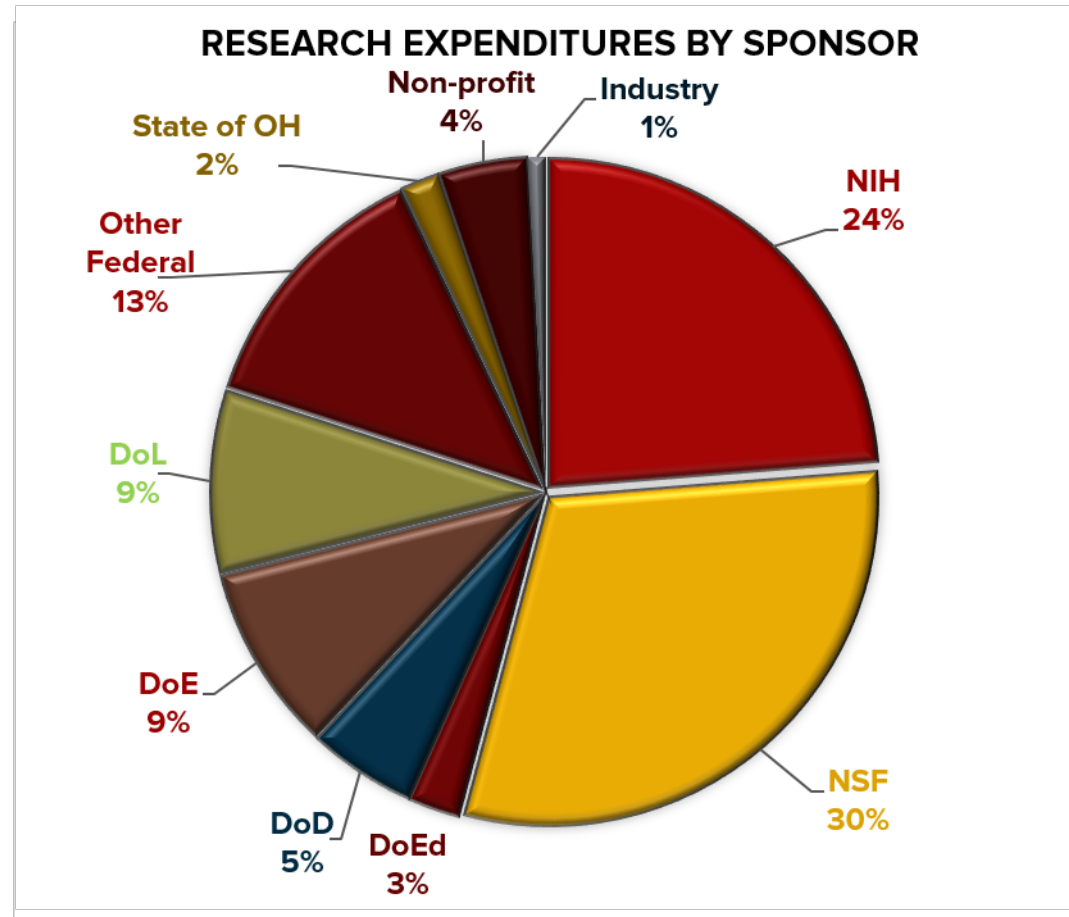
- ▷ **\$997,210** invested by OARDC
- ▷ **\$5,753,082** in extramural funds received
- ▷ **\$462,363** in matching funds from industry partners
- ▷ **40** publications, **52** presentations
- ▷ **7** graduate dissertations/theses
- ▷ **2** patent applications and **2** invention disclosures





## Ohio State's College of Arts & Sciences

- Consists of 38 departments, and schools
- Annual research expenditures of over \$86 million
- Approximately 940 active faculty
- 888 proposals submitted in FY 2017





## Goal: Maximize output, Minimize budget

- Upcoming Grant Workshop Series for faculty modeled on an existing series at OSU for research administration staff
- Pilot program will include a component for 1 division (out of 3) to choose their own experiences (grantsmanship, commercialization, etc.) that will include a small spending stipend
- Other 2 divisions currently have “small grants” programs similar to FAES’s SEED grants (with significantly less funding available)





# THE **STEAM** FACTORY



- The STEAM Factory is a diverse and inclusive grass-roots network in the Ohio State community that facilitates creative and interdisciplinary collaboration, innovation and dissemination.
- With a space in Franklinton, about 5 miles from Campus, sits in an arts district for the City of Columbus.
- Events focused on integrating scientists outside of their current units to help drive collaboration and drive interesting, interdisciplinary proposals



## Fostering Undergraduate Research

OSU Arts and Sciences pushes undergraduates to pursue research opportunities. We have our own undergraduate research forum to prepare student researchers for Ohio State's university-wide research forum, the Denman Undergraduate Research Forum.

### Why this matters:

In 2012, undergraduate chemistry major Elisabeth Bianco won \$3,000 and first place in a national nanotech competition for exploring the properties of a one-atom thick layer of germanium that she had synthesized and characterized for the first time in her advisor, Joshua Goldberger's, lab.

Today Goldberger heads a team that was awarded \$2M by the National Science Foundation to study germanium and tin's thermal conductance and thermoelectric properties. He is delighted that Bianco's work led to further research of ultrathin materials by five senior researchers.



## ASC RFP lookup

- New system in the alpha testing phase (currently looking for a better name)
- Matches PI keywords against a large list of agency and foundation solicitations
- Assists PIs looking for collaborators: system emails PIs when new solicitations that match their keywords are added and suggests other users that have the same matches

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Hadad, Christopher

### Currently Matched Projects

Name	Granting Agency	Members	File
<a href="#">2017 Broad Agency Announcement</a>	US Army Engineer Research and Development Center	Hadad, Christopher	<a href="#">W912HZ17BAA01.pdf</a>
<a href="#">Long Range Broad Agency Announcement (BAA) for Navy and Marine Corps Science and Technology</a>	Office of Naval Research	Hadad, Christopher	<a href="#">N00014-17-S-B001_Amendment_0004__1_.pdf</a>

### Key Words

acetylcholinesterase



butyrylcholinesterase



chemical nerve agents





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## FY2017 Research Numbers

[go.osu.edu/EHEInfoFY17](http://go.osu.edu/EHEInfoFY17)

- 168 Faculty
- 2 Stand Alone Centers
- 3 Departments
- Centralized Grants Management Unit

### EXPENDITURES

Research expenditures – the funds spent on personnel, supplies and services – reflect the research activity of a college.

**\$27 MILLION**

FY2017 research expenditures

#### OFFICE OF SPONSORED PROGRAMS (OSP) EXPENDITURES (DIRECT & INDIRECT COSTS):

HUMAN SCIENCES	\$5,575,343
TEACHING & LEARNING	\$3,077,699
EDUCATIONAL STUDIES	\$3,694,314
CENTERS/ADMIN	\$12,187,898

#### CONTRACTS, OARDC AND OSU EXTENSION EXPENDITURES:

CONTRACTS	\$2,070,058
OARDC/OSUE	\$787,708

### SUBMISSIONS AND AWARDS

#### PROPOSALS

**162** submitted

**\$181,110,848** in funds requested

#### FUNDED

**62** awarded

**\$23,947,834** anticipated over the life of the



## **Goal: Increase the Competitiveness of Proposal Submissions**

- Segmented our faculty and researchers into groups and created programming and services that would meet specific needs of that group
- Focused on the “budding PI” segment
  - Had some experience writing proposals
  - Might have received funding but from foundations, state, seed grants
  - Only a bridesmaid – never the bride
- Encouraging submissions to funders that allow full F&A





## Grant Writing Incentive Program

- Only offered to the “budding PI” segment of our faculty and researchers
- Sponsor requires full F&A rate\*
- Participate in a Red Team review\*
- Submit applications by August 15, 2018\*
- Attend a bi-weekly writing group
- Receive \$2000 (up to 20 applicants)

\*Requirements of the program



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## Proposal Development Tools

[go.osu.edu/ProposalDevelopment](https://go.osu.edu/ProposalDevelopment)

### EHE Proposal Development Wiki

The EHE Office of Research has created this wiki for EHE faculty and researchers. The wiki provides information and examples to support proposal development – including **awarding-winning proposals, budgets and proposal templates**. If you have any issues gaining access, please contact [Kim Lightle](#) (OSU Login Required).



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## **Proposal Development Tools**

[go.osu.edu/FundingOpps](https://go.osu.edu/FundingOpps)

### **Online Library of Funding Opportunities**

Search this curated collection of active funding opportunities which have been handpicked for faculty and researchers in EHE. Entries includes opportunities from federal, foundation and OSU sponsors. The records are browsable as well as searchable by Keyword as well as Sponsor Type, Program Type, and Topic. Opportunities are added to the online library as they are released by funding agencies.



## Answers to Proposal Development Questions

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[Who are the people who help with proposal submissions by EHE faculty/staff/students?](#)

[Do I have PI status? How hard is it to get? When do I need it?](#)

[What is the big deal about an ePA-005?](#)

[How do I sign onto NSF FastLane for the first time?](#)

[What is Cayuse and why should I care?](#)

[How do I find funding opportunities?](#)

[Do you have checklists for the required sections for federal submissions?](#)

[What is my project going to cost? How do I know what to add to my budget?](#)

[I know I need to talk to a program officer at the funding agency – what should I ask them?](#)

[I would like to have feedback on my proposal – what services do you offer?](#)

[I'm interested in foundation funding – where should I start?](#)

[Do you have examples of required sections of proposals such as biosketches, facilities, and others?](#)

[Do you have samples of award-winning proposals?](#)

[I want to do research in a K-12 school. What do I need to know?](#)



## Funding Opportunities for EHE Researchers

### Advanced Search ^

#### Sponsor Type

- ☐ Federal
- ☐ Non-Federal
- ☐ OSU

#### Program Type

- ☐ Dissertation Fellowship
- ☐ Conference Support
- ☐ Evaluation
- ☐ Faculty Early Career
- ☐ Graduate Research Fellowship
- ☐ Outreach and Engagement
- ☐ Postdoctoral Fellowship
- ☐ Research
- ☐ Scholarship
- ☐ Training
- ☐ Undergraduate Research Fellowship

#### SEEDS: The OARDC Research Enhancement Competitive Grants Program

<https://grants.cfaes.ohio-state.edu/seeds>

Sponsor: OSU, College of Food, Agriculture and Environmental Science

**Submission Deadline: October 11, 2017**

Each year, CFAES researchers are invited to participate in the SEEDS program, an internal competition for funding. Since the program was established in 1996, SEEDS has been addressing the challenges and opportunities of Ohio's agbioscience industry. By fostering high-quality research among scientists, SEEDS enables these scientists to collect the preliminary data needed to give them a competitive edge in national programs and provides them with leverage to attract industry support.

- ☐ Access and Equity
- ☐ Aging
- ☐ Anthropology
- ☐ At-Risk Populations

# Questions?

## **Lori Kaser, CRA**

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